



Corres. and Mail  
**BOX AF**

RESPONSE UNDER 37 CFR §1.116  
EXPEDITED PROCEDURE  
EXAMINING GROUP 3743

AF  
3743

COPY OF PAPERS  
ORIGINALLY FILED

PATENT  
PD-YR1-9

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: Lenny Low et al.

Serial No. 09/822,073

Filed: March 30, 2001

For: Heat Transfer of a Remote Heat Source Using a Loop  
Heat Pipe

: Date: August 1, 2002

: Group Art Unit: 3743

: Examiner: Christopher M. Atkinson

: Batch No.:

: Patent No.:

**CERTIFICATE OF MAILING  
UNDER 37 CFR 1.8**

The Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Sir:

**Identification of Transmitted Papers**

Amendment comprising 6 pages, Transmittal letter in duplicate, one set of replacement reproducing masters, return receipt postcard

I hereby certify that the above-identified correspondence is being deposited with the United States Postal Service on August 1, 2002 with sufficient postage as first class mail, and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Kenneth W. Float  
Reg. No. 29,233

The Law Offices of Kenneth W. Float  
Office address: 2 Shire, Coto de Caza, CA 92679  
Mailing address: PO Box 80790, Rancho Santa Margarita, CA 92688-0790  
Telephone: (949) 459-5519  
Facsimile: (949) 459-5520



Corres. and Mail  
**BOX AF**

COPY OF PAPERS  
ORIGINALLY FILED

RESPONSE UNDER 37 CFR §1.116  
EXPEDITED PROCEDURE  
EXAMINING GROUP 3743

PATENT  
PD-YR1-9

#51B  
1 < Cooper  
8/20/02  
(ne)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: Lenny Low et al.

: Date: August 1, 2002

Serial No. 09/822,073

: Group Art Unit: 3743

Filed: March 30, 2001

: Examiner: Christopher M.

For: Heat Transfer of a Remote Heat Source Using a Loop  
Heat Pipe

**TRANSMITTAL LETTER**

The Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Sir:

Transmitted herewith is an amendment in the above-identified application.

  X   No additional fee is required.

       The fee has been calculated as shown below:

**CLAIMS AS AMENDED**

CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NO. PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE		ADDITIONAL TOTAL
Total Claims	<u>  6  </u>	minus	<u> 20 </u>	=	<u>  0 </u>	X	\$ 18.00	= \$ 0.00
Independent Claims	<u>  3 </u>	minus	<u>  3 </u>	=	<u>  0 </u>	X	\$ 84.00	= \$ 0.00
Multiple Dependent Claims					<u>  0 </u>	X	\$ 280.00	= \$ 0.00
<b>TOTAL ADDITIONAL FEES FOR THIS AMENDMENT</b>								<b>\$ 0.00</b>

A cheque in the amount of \$0.00 is enclosed with this Transmittal Letter to cover these costs. This form is submitted in duplicate.

Respectfully submitted

Kenneth W. Float  
Reg. No. 29,233

The Law Offices of Kenneth W. Float  
Office address: 2 Shire, Coto de Caza, CA 92679  
Mailing address: P.O. Box 80790, Rancho Santa Margarita CA 92688-0790  
Telephone: (949) 459-5519  
Facsimile: (949) 459-5520

**RECEIVED**  
AUG 20 2002  
TECHNOLOGY CENTER R3700



COPY OF PAPERS  
ORIGINALLY FILED

COPY OF PAPERS  
ORIGINALLY FILED

RESPONSE AFTER FINAL REJECTION  
EXPEDITED PROCEDURE  
EXAMINING GROUP 3743

PATENT  
PD-YR1-9

#513  
K Cooper  
8/20/02  
(ne)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: LENNY LOW ET AL. : Date: August 1, 2002  
Serial No. 09/822,073 :  
Filed: March 30, 2001 : Group Art Unit: 3743  
For: HEAT TRANSFER OF A REMOTE HEAT: :  
SOURCE USING A LOOP HEAT PIPE : Examiner: Christopher. M. Atkinson

Do not  
enter

OK  
8/21/02

AMENDMENT AFTER FINAL REJECTION

Commissioner of Patents and Trademarks  
Washington, D. C. 20231

Sir:

In response to the Office Action mailed June 18, 2002, please amend the above-identified patent application as follows.

IN THE CLAIMS

Please amend the following Claims to read as indicted

RECEIVED  
AUG 20 2002  
TECHNOLOGY CENTER R3700

1. A heat transfer system comprising:  
a spacecraft comprising a heat dissipating system;  
a remotely-located heat source disposed on the spacecraft at a location that is remote  
from the heat dissipating system and which is not located on a heat pipe panel; and  
5 a loop heat pipe thermally coupled between the remotely-located heat source and the  
heat dissipating system for coupling heat generated by the heat source to the heat dissipating  
system.

3. A spacecraft comprising:  
a heat dissipating system for radiating heat into space;  
a remotely-located heat source disposed at a location that is remote from the heat  
dissipating system and which is not located on a heat pipe panel; and  
5 a loop heat pipe thermally coupled between the remotely-located heat source and the  
heat dissipating system for coupling heat generated by the remotely-located heat source to the  
heat dissipating system.

5. A heat dissipation method for use on a spacecraft comprising the steps of:  
disposing a remotely-located heat source on a spacecraft at a location that is remote  
from a heat dissipating system and which is not located on a heat pipe panel;  
thermally coupling a loop heat pipe between the remotely-located heat source and the  
5 heat dissipating system; and